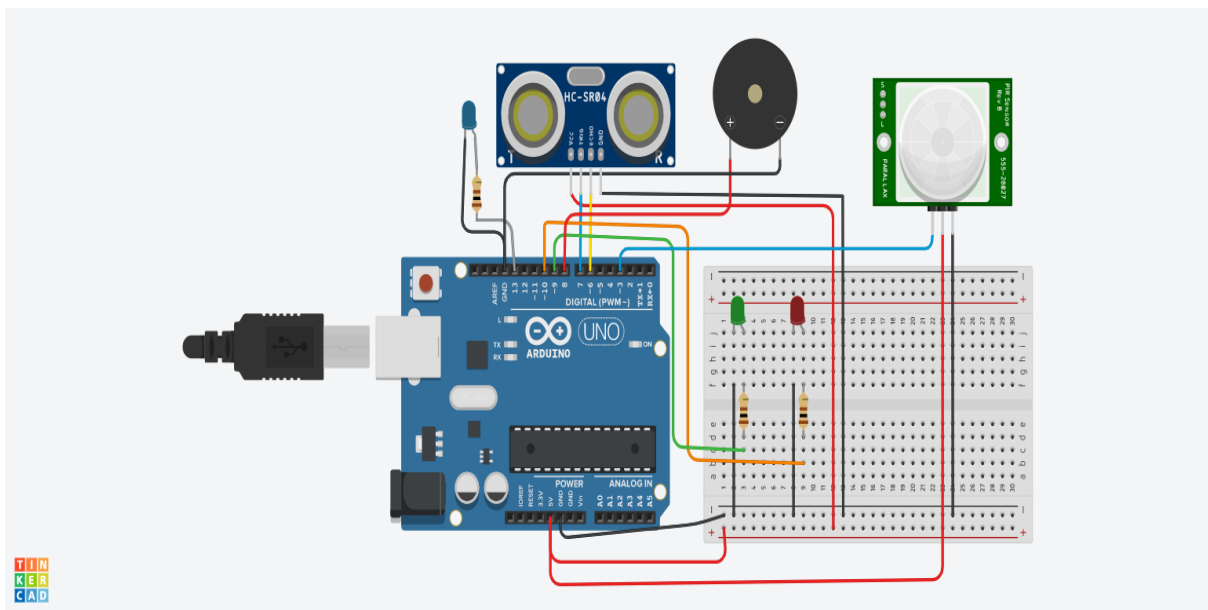# Assignment -1
Python Programming

Team id	PNT2022TMID14587
Maximum Marks	2 Marks

Question:

Make a smart home with 2-3 sensors, LED , Buzzer in single code and connections.

Circuit:

Program code:

```
#define Trigpin 7

#define Echopin 8

#define low_led 9

#define high_led 10

float distance;

int duration;

int ll = 700;


void setup() {
```

```arduino
  pinMode (Trigpin, OUTPUT);

  pinMode (low_led, OUTPUT);

  pinMode (high_led, OUTPUT);

  pinMode (Echopin, INPUT);

  Serial.begin(9600);

  Serial.println ("Welcome To Distance Meter");

  Serial.println ("Coded By Jevins Annson");

  digitalWrite (low_led, LOW);

  digitalWrite (high_led, LOW);

}

void loop() {

  digitalWrite(Trigpin, LOW);

  delayMicroseconds(2);

  digitalWrite(Trigpin, HIGH);

  delayMicroseconds(10);

  digitalWrite(Trigpin, LOW);

  duration = pulseIn(Echopin, HIGH);

  distance = duration * 0.034 / 2;

  delay (ll);

  Serial.println (" ");

  Serial.print ("Distance = ");

  Serial.print (distance);

  Serial.print (" CM");

  Serial.println (" ");

  if (distance>=30)

  {

    Serial.println ("Nobody Is Infront Of the Sensor");

    digitalWrite (low_led, HIGH);

    delay (500);
```

```
  digitalWrite (low_led, LOW);

  delay (500);

  digitalWrite (low_led, HIGH);

 }

 else

 {

  Serial.println ("Someone Is Infront Of the Sensor");

  digitalWrite (high_led, HIGH);

  delay (100);

  digitalWrite (high_led, LOW);

  delay (100);

  digitalWrite (high_led, HIGH);

  delay (100);

 }

}
```